

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P293670

Luminaire Tested: **24GR-LD5-34-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-A125-UNV-L83050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3305.0 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

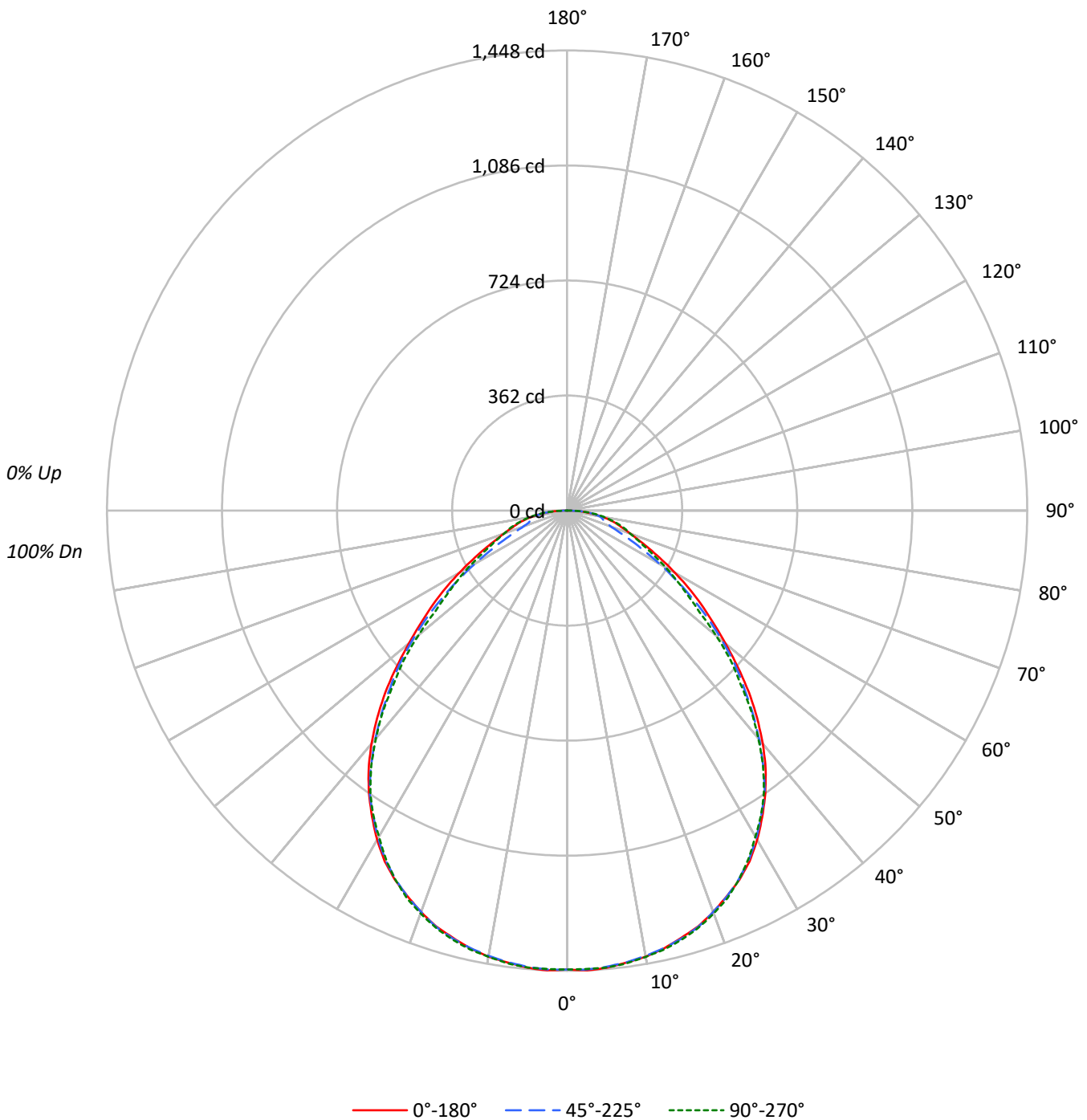
Input Watts (W): 22.971  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1943	1943	1943
5°	1950	1946	1949
10°	1947	1944	1948
15°	1938	1941	1946
20°	1925	1925	1932
25°	1903	1899	1901
30°	1858	1849	1840
35°	1785	1780	1773
40°	1682	1651	1644
45°	1538	1496	1469
50°	1360	1333	1281
55°	1209	1127	1084
60°	1053	902	967
65°	909	699	855
70°	830	572	828
75°	836	617	879
80°	871	803	927
85°	908	956	1027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	4.1
10°-20°	392.9	11.9
20°-30°	588.1	17.8
30°-40°	672.0	20.3
40°-50°	607.6	18.4
50°-60°	437.1	13.2
60°-70°	253.4	7.7
70°-80°	150.3	4.5
80°-90°	66.6	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1118.0	33.8
0°-40°	1790.0	54.2
0°-60°	2834.7	85.8
0°-90°	3305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1444	1442	1441	1438	1443	137
15°	1391	1394	1394	1392	1397	393
25°	1282	1280	1279	1277	1280	589
35°	1087	1082	1084	1070	1080	678
45°	808	794	786	779	772	621
55°	516	506	480	468	462	461
65°	286	254	220	245	269	288
75°	161	135	119	146	169	170
85°	59	63	62	71	66	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1444.2	1444.2	1444.2	1444.2	1444.2
2.5°	1448.3	1443.1	1445.7	1444.2	1443.7
5°	1443.7	1441.6	1440.6	1438.5	1443.1
7.5°	1434.4	1432.8	1433.3	1433.9	1437.0
10°	1425.1	1422.5	1423.0	1424.1	1425.6
12.5°	1410.7	1409.1	1409.6	1410.7	1414.3
15°	1391.1	1393.6	1393.6	1392.1	1397.3
17.5°	1371.5	1371.0	1373.5	1368.9	1376.1
20°	1344.1	1344.7	1344.1	1344.7	1349.3
22.5°	1313.2	1315.8	1314.2	1314.2	1319.4
25°	1281.8	1280.2	1279.2	1276.6	1280.2
27.5°	1244.1	1241.0	1238.4	1233.3	1235.9
30°	1196.2	1196.7	1190.0	1185.3	1184.3
32.5°	1142.5	1142.5	1136.4	1132.8	1135.8
35°	1086.9	1081.7	1083.8	1070.4	1079.6
37.5°	1026.5	1018.3	1013.7	1009.0	1012.1
40°	957.5	946.6	939.9	930.6	935.8
42.5°	884.8	871.3	863.1	856.4	858.5
45°	808.4	794.5	786.3	779.1	771.8
47.5°	728.0	719.2	715.1	705.8	697.6
50°	649.6	646.6	636.8	629.0	612.0
52.5°	578.0	575.4	559.9	547.0	525.4
55°	515.6	505.8	480.5	468.2	462.0
57.5°	452.2	436.2	405.8	404.2	408.3
60°	391.3	371.7	335.1	343.4	359.4
62.5°	336.2	306.8	271.7	291.3	310.4
65°	285.6	253.7	219.6	245.4	268.6
67.5°	243.9	211.9	176.8	211.4	238.2
70°	210.9	178.4	145.4	185.1	210.4
72.5°	183.6	154.2	126.8	164.5	190.8
75°	160.9	134.6	118.6	146.4	169.1
77.5°	138.2	117.0	113.4	130.4	144.4
80°	112.4	102.6	103.6	114.5	119.6
82.5°	84.0	84.6	87.1	95.9	93.8
85°	58.8	63.4	61.9	71.2	66.5
87.5°	32.5	35.6	33.5	40.7	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)